	Si		α			44.49		pp. 3	55(0)	1968	MP.	TH.	相相	103500	Personal Property of the	A
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X			_	_		-	+-	+-	+	-	⊢	+-	۲×	+-	01147-1	
X			$\overline{}$		-	×	1	+-	+	×	-	-	-	+^	3854(g)	SiH4(g)+2N2O(g)=SiH4(g)+2N2O(g)
X			_		-		†	+	+-	-	×	-	-	+-	CAIR	PHILIP AND LOCAL PRINTERS AND LO
X	×	X				×					-	×	-	_		3in+(g)+2/42O(g)=5i/4H+NH3(g)+N2(g)+O2(g)
X								1	L				1 x	-	SiNH3	SiH4(n)+2N2Ovn)+SiNU2+N2Ovn(+UNOv+)
X			_	L.,		Х								X		· · · · · · · · · · · · · · · · · · ·
X			_	_	_	_		ــ	_	X					SiN2	SiH4+2N2O(q)=SiN2+2H2O(q)+N2(q)
X				_	_	_	1×	-	-	_	Х	_	-	-	-	
X			_	\vdash	_	-		-	\vdash	⊢	_	X	١	-	SIN2H2	SiH4(g)+2N2O(g)=SIN2H2+N2O(g)+H2O(g)
X						-		-	-	-	-	⊢	-X	-	0.10111	
X						-	^	×	-	·		-	-	-	SINZH4	SiH4(g)+2N2O(g)=SiN2H4+N2(g)+O2(g)
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X									-				×		SiN3H3	SIH4/nl+3N2O/nl=Sihi3U3+UNO/nl+O3(nl+N3/n)
X			_					X						x	-	
X				ш	_	_	_	\vdash		X	_		匚		SiN4	SiH4(g)+2N2O(g)=SiN4+2H2O(a)
X X X X X X X X X X X X X X X X X X X			_	\vdash	_	_	_	_			х	Ľ	┖	\vdash		
X			_	_	_	\vdash	-	-		-		X	_	_	SiN4H2	SiH4(g)+2N2O(g)=SiN4H2+O2(g)+H2(g)
X	+		-	-	-	-	\vdash	\vdash	₽÷	\vdash	-	\vdash	×	l		
X	Ŷ	^	v	-	v	_	-	-	<u> ^</u>	₩	_	_	⊢	X	SaN4H4	SiH4(g)+2N2O(g)=SiN4H4+O2(g)
X	x	-	x	\neg			_	-	_	⊢≏⊢	¥		-	\vdash		
X	X	\neg					-	_	1	Н	-	х	-	\vdash	S/DH2	Substitute 2012 Of the Printing Linear Linea
X	х		X		х			-		П		^	x	Н	, and the	51H4(g)+21t2O(g)+51OH2+H2O(g)+2N2(g)
X	x			\Box	х							\neg		X	SIOH4	S(H4(g)+2N2O(g)=SiOH4+N2O(g)+N2(g)
X X X X X X X X X X X X X X X X X X X				\neg				Ш		х						
X		-	х		_	х	-	_	ш		Х				SIONH	SiH4(g)+2N2O(g)=SiONH+N2O(g)+NH3(q)
X	즧	-		-	_		_		\mathbf{H}	\rightarrow	_	х	_	$\overline{}$		
X		\rightarrow		\rightarrow	-				\vdash	-	_	_	x		SiONH3	SiH4(g)+2N2O(g)=SiONH3+HNO(g)+N2(g)
X		-	- 	\rightarrow	-	^			-		_	_	-	X		
X	x	\dashv	ŵ l	-					Н	^	v	_	-	\vdash	SION2	SiH4(g)+2N2O(g)=SiON2+H2O(g)+N2(g)+H2(g)
X	x	\neg		\neg			Y	_		\neg	^	Y	-	-	eloniana	0.000 1.00000 1.00000
X X X X X X X X X X X X X X X X X X X	x			\neg		\neg				\dashv		Ĥ	x	\vdash	JIOIVENE	Siri4(g)+2N2O(g)=SiON2H2+N2O(g)+H2(g)
X	х	\neg		\Box			x			\neg		\neg		х	SiON2H4	SH4/al+2N2O/aluSiON2H4-N2O/al
X		\rightarrow		\neg						×						
X		\rightarrow		-	-	_			ш	_	x	_	\Box	щ	SION3H	SiH4(g)+2N2O(g)=SiON3H+HNO(g)+H2(g)
X		\rightarrow		\rightarrow	-	-	-		-		_	х	-			
		-	\$	-	\dashv	_	_	X	\vdash	-	-	\rightarrow	х	. I	SiON3H3	SiH4(g)+2N2O(g)=SiON3H3+HNO(g)
X X X S SOURH SHIP STANDARD SHIP SHIP SHIP SHIP SHIP SHIP SHIP SHIP	x l	_	Ŷ	\rightarrow	_	_	_	^	v	v	-	\rightarrow	_	-^-	- COM	
X	x	\neg		_	_		\neg				x	-	_	\rightarrow	SIUNA	SiH4(g)+2N2O(g)=SiON4+H2O(g)+H2(g)
	x T	\neg		\neg	\neg		\neg				-	¥	\neg	_	SIONAH2	POLICE AND CHARGO THE CONTROL OF THE
	x		x						X		_		х	\dashv	-	arre(g)+zezo(g)-aloxenz+nzo(g)
	X			J	J				x					x		SiH4(q)+3N2O(q)=SiQN4H4+N2(q)+Q7(q)
X	X	SEL.	100			199	360	i-Bi	9900	×	(9)0	6,6	diff	igdi _n		S H4(g)+2N2O(g)=SiO2+2H2O(g)+2N2ig)
X		4	4			_	_	_	_	_	х	_	_	\neg		
X		4	-			-	_	-	-1		4	X		- I	SIO2H2	SiH4(g)+2N2O(g)=SiO2H2+2N2(g)+H2(g)
X		+				-	\rightarrow	-	\rightarrow	-	-	-	х	Ų.		
	\$ +	-1			^	v	\dashv	\dashv	\rightarrow	v	\dashv	\dashv	\rightarrow	×	SiO2H4	SiH4(g)+2N2O(g)=SiO2H4+2N2(g)
X		$^{+}$	\dashv		\dashv		\rightarrow	\dashv	\rightarrow	^	¥	\dashv	\rightarrow	\rightarrow	SIOSNIA	Patricia and Committee of the committee
X	×		7	X	7	х	\neg	\neg	\rightarrow	-	~	x l	_	_	- CIOLINI	oinH(g)+ZnZO(g)=SiOZNH+NH3(g)+N2(g)
X	X			x		х					ゴ	╛	X		SiO2NH3	SiH4(a)+2N2O(a)=SiO2NH3+N3H/a)
X	x	#			J	х				J	J	╛		x		(a)(a)(a)
X	X	T			コ	_		⊐	\exists		⊐				SiO2N2	SiH4(g)+2N2O(g)=SiO2N2+N2(g)+2H2(g)
X		4			J	4	×Τ		二	J	x	J			-	
X		+			-	-		_	_	_	_	X	_	-	SiO2N2H2	SiH4(g)+2N2O(g)=SiO2N2H2+N2(g)+H2(g)
X X		+			+	4		-	-	\rightarrow	-	4	×	ᆛ		
X	<u> </u>	+	+	\$	+	-	^	V	\rightarrow		4	\rightarrow	\rightarrow	X	SiO2N2H4	SiH4(g)+2N2O(g)=SiO2N2H4+N2(g)
X X X X X X X X X X X X X X X X X X X	}	1			-	+	-		+	^	×	1	-	- 1	SiO2N3H	Sintrate Management Company of the C
X	à l	+			-	+	\rightarrow		\rightarrow	\rightarrow		×	\rightarrow	-+	ON/DV3H	Sina(g)+ZriZU(g)=SiO2N3H+NH3(g)
X	7	$^{+}$			$^{+}$	-	\neg		-+	-	\forall		x	-		
X X X SO294 SH4(g)+2022(g)=SO294+217(g) X X X X SO294+2 S644(g)+2022(g)=SO294+217(g) X X X X X SO294+2 S644(g)+2022(g)=SO294+12+12(g)	<	\exists		x							7	\dashv	-	x	-	
X	<	T			T						J	J	J		SiO2N4	SiH4(g)+2N2O(g)=SiO2N4+2H2fa)
X X X	(1			_[_[T		コ		コ		
[+	4	X	+	4	_	_		_	4				SiO2N4H2	SiH4(g)+2N2O(g)=SiO2N4H2+H2(g)
X X X S/O2N4H4 S/H4(g)+2N2O(g)=S/O2N4H4		-	+	<u> </u>	\rightarrow	-	-	-		-1	4	_	X	_	-	

Figure 1

_	Compound	PECVD chemical reaction
	SiH4(g)	SiH4(g)+2N2O(g)=SiH4(g)+2N2O(g)
	SiNH	SiH4(g)+2N2O(g)=SiNH+NH3(g)+N2(g)+O2(g)
95 95	SiNH3	SiH4(g)+2N2O(g)=SiNH3+N2O(g)+HNO(g)
9	SiN2	SiH4+2N2O(g)=SiN2+2H2O(g)+N2(g)
Æ	SiN2H2	SiH4(g)+2N2O(g)=SiN2H2+N2O(g)+H2O(g)
ĕ	SiN2H4	SiH4(g)+2N2O(g)=SiN2H4+N2(g)+O2(g)
100	SiN3H	SiH4(g)+2N2O(g)=SiN3H+NH3(g)+O2(g)
98	SiN3H3	SiH4(g)+3N2O(g)=SiN3H3+HNO(g)+O2(g)+N2(g)
ia T	SiN4	SiH4(g)+2N2O(g)=SiN4+2H2O(g)
il)	SiN4H2	SiH4(g)+2N2O(g)=SiN4H2+O2(g)+H2(g)
SI Sh	SiN4H4	SiH4(g)+2N2O(g)=SiN4H4+O2(g)
	SiOH2	SiH4(g)+2N2O(g)=SiOH2+H2O(g)+2N2(g)
N.	SiOH4	SiH4(g)+2N2O(g)=SiOH4+N2O(g)+N2(g)
	SIONH	SiH4(g)+2N2O(g)=SiONH+N2O(g)+NH3(g)
8	SiONH3	SiH4(g)+2N2O(g)=SiONH3+HNO(g)+N2(g)
	SiON2	SiH4(g)+2N2O(g)=SiON2+H2O(g)+N2(g)+H2(g)
Г	SiON2H2	SiH4(g)+2N2O(g)=SiON2H2+N2O(g)+H2(g)
1	SiON2H4	SiH4(g)+2N2O(g)=SiON2H4+N2O(g)
Г	SiON3H	SiH4(g)+2N2O(g)=SiON3H+HNO(g)+H2(g)
35	SiON3H3	SiH4(g)+2N2O(g)=SiON3H3+HNO(g)
1	SiON4	SiH4(g)+2N2O(g)=SiON4+H2O(g)+H2(g)
3	SiON4H2	SiH4(g)+2N2O(g)=SiON4H2+H2O(g)
8	SiON4H4	SiH4(g)+3N2O(g)=SiON4H4+N2(g)+O2(g)
	SiO2	SiH4(g)+2N2O(g)=SiO2+2H2O(g)+2N2(g)
è	SiO2H2	SiH4(g)+2N2O(g)=SiO2H2+2N2(g)+H2(g)
ě.	SiO2H4	SiH4(g)+2N2O(g)=SiO2H4+2N2(g)
Ε	SiO2NH	SiH4(g)+2N2O(g)=SiO2NH+NH3(g)+N2(g)
Ē	SiO2NH3	SiH4(g)+2N2O(g)=SiO2NH3+N3H(g)
I	SiO2N2	SiH4(g)+2N2O(g)=SiO2N2+N2(g)+2H2(g)
E	SiO2N2H2	SiH4(g)+2N2O(g)=SiO2N2H2+N2(g)+H2(g)
8	SiO2N2H4	SiH4(g)+2N2O(g)=SiO2N2H4+N2(g)
E	SiO2N3H	SiH4(g)+2N2O(g)=SiO2N3H+NH3(g)
L	SiO2N4	SiH4(g)+2N2O(g)=SiO2N4+2H2(g)
L	SiO2N4H2	SiH4(g)+2N2O(g)=SiO2N4H2+H2(g)
	SiO2N4H4	SiH4(g)+2N2O(g)=SiO2N4H4

Figure 2

	Compound	High To thermal treatment reaction	New compound
addition of	SiH4(g)	SiH4+N2(g)=SiNH+NH3(g)	SiNH
	SiNH	SiNH+N2(g)=SiNH+N2(g)	SiNH
	SiNH3	SiNH3+N2(g)=SiNH+N2(g)+H2(g)	SINH
ğ	SiN2	SiN2+N2(g)=SiN2+N2(g)	SiN2
3	SiN2H2	SiN2H2+N2(g)=SiN2+N2(g)+H2(g)	SiN2
Compounds	SiN2H4	SiN2H4+N2(g)=SiN2+N2(g)+2H2(g)	SiN2
5	SiN3H	SiN3H+N2(g)=SiNH+2N2(g)	SINH
	SIN3H3	SiN3H3+N2(g)=SiNH+2N2(g)+H2(g)	SiNH
Š	SiN4	SiN4+N2(g)=SiN2+2N2(g)	SiN2
Illino.	SiN4H2	SiN4H2+N2(g)=SiN2+2N2(g)+H2(g)	SiN2
	SiN4H4	SiN4H4+N2(g)=SiN2+2N2(g)+2H2(g)	SiN2
	SiOH2	SiOH2+N2(g)=SiOH2+N2(g)	SiOH2
100	SiOH4	SiOH4+N2(g)=SiOH2+N2(g)+H2(g)	SiOH2
Point.	SIONH	SiONH+N2(g)=SiONH+N2(g)	SiONH
compounds	SiONH3	SiONH3+N2(g)=SiONH+N2(g)+H2(g)	SIONH
	SiON2	SiON2+N2(g)=SiON2+N2(g)	SiON2
2	SiON2H2	SiON2H2+N2(g)=SiON2+N2(g)+H2(g)	SiON2
5	SiON2H4	SiON2H4+N2(g)=SiON2+N2(g)+2H2(g)	SiON2
756	SiON3H	SiON3H+N2(g)=SiONH+2N2(g)	SIONH
	SiON3H3	SiON3H3+N2(g)=SiONH+2N2(g)+H2(g)	SIONH
	SiON4	SiON4+N2(g)=SiON2+2N2(g)	SiON2
100	SiON4H2	SiON4H2+N2(g)=SiON2+2N2(g)+H2(g)	SiON2
	SiON4H4	SiON4H4+N2(g)=SiON2+2N2(g)+2H2(g)	SiON2
145	SiO2	SiO2+N2(g)=SiO2+N2(g)	SiO2
12.0	SiO2H2	SiO2H2+N2(g)=SiO2+N2(g)+H2(g)	SiO2
Appro Pho	SiO2H4	SiO2H4+N2(g)=SiO2+N2(g)+2H2(g)	SiO2
18 T	SiO2NH	SiO2NH+N2(g)=SiO2NH+N2(g)	SiO2
	SiO2NH3	SiO2NH3+N2(g)=SiO2+NH3(g)+N2(g)	SiO2
畿	SiO2N2	SiO2N2+N2(g)=SiO2+2N2(g)	SiO2
	SiO2N2H2	SiO2N2H2+N2(g)=SiO2+2N2(g)+H2(g)	SiO2
Title S	SiO2N2H4	SiO2N2H4+N2(g)=SiO2+2N2(g)+2H2(g)	SiO2
Silva cumpumins	SiO2N3H	SiO2N3H+N2(g)=SiO2NH+2N2(g)	SiO2
278	SiO2N4	SiO2N4+N2(g)=SiO2+3N2(g)	SiO2
	SiO2N4H2	SiO2N4H2+N2(g)=SiO2+3N2(g)+H2(g)	SiO2
finne (iii):	SiO2N4H4	SiO2N4H4+N2(g)=SiO2+3N2(g)+2H2(g)	SiO2

Figure 3

		H-0H	SiO.H	SIN.H	H-N-IS	H-iS	S=0	N=N	is-o-is	Si-0-Si	NO-IS	SLOH	Si-O-Si	S-0-S
r 1 e €	Min	3550	3470	3380	3300	2210	1800	1530	1080	1000	910	860	740	410
Tist mode (em.1)	Ave	3650	3510	3420	3380	2260	1875	1555	1180	1080	950	885	810	460
CONTRACT.	Max	3750	3550	3460	3460	2310	1950	1580	1280	1160	990	910	880	510
120	Min	2.817	2.882	2.959	3.030	4.525	5.556	6.536	9 259	10.000	10.989	11.628	13.514	24.39
1st mode (pm)	Ave	2.740	2.849	2.924	2.959	4.425	5.333	6.431	8.475	9.259	10.526	11.299	12.346	21.739
A PROPERTY OF	Max	2.667	2.817	2.890	2.890	4.329	5.128	6.329	7.813	8.621	10.101	10.989	11 364	19.60
n 2 e	Min	1.408	1.441	1.479	1.515	2.262	2.778	3.268	4.630	5.000	5.495	5.814	6.757	12.19
2nd mode (µm)	Ave	1.370	1.425	1.462	1.479	2.212	2.667	3.215	4.237	4.630	5 263	5.650	6.173	10.870
	Max	1.333	1.408	1.445	1.445	2.165	2 564	3 165	3.906	4.310	5.051	5.495	5.682	9.804
	Min	0.939	0.961	0.986	1.010	1.508	1.852	2.179	3.086	3.333	3.663	3.876	4 505	8.130
3rd mode (µm)	Ave	0.913	0.950	0.975	0.986	1.475	1.778	2.144	2.825	3.086	3.509	3.766	4.115	7.246
Carlotte Street	Max	0.889	0.939	0.963	0.963	1.443	1.709	2.110	2.604	2.874	3.367	3.663	3.788	6.536
-9-	Min	0.794	0.720	0.740	0.758	1.131	1.389	1.634	2.315	2.500	2.747	2.907	3.378	6.098
# 0 E	Ave	0.685	0712	0.731	0.740	1.106	1.333	1.608	2 119	2315	2.632	2.825	3 086	5.495
開始。 阿勒	Max	0.667	0.704	0.723	0.723	1.082	1.282	1.582	1.953	2.155	2.525	2.747	2.841	4.902
	Min	0.563	0.576	0.592	0.606	0.905	1.111	1.307	1.852	2.000	2.198	2.326	2.703	4.878
#3 ge (m)	Ave	0.548	0.570	0 585	0.592	0 885	1.067	1.286	1.695	1.852	2.105	2.260	2.469	4.348
The state of	Max	0.533	0.563	0.578	0 578	0.866	1 026	1.266	1.563	1.724	2.020	2 198	2.273	3 922
- 9 -	Min	0.469	0.480	0.493	0.505	0 754	0.926	1 089	1.543	1.667	1.832	1 938	2.252	4.065
# ge (iii	Ave	0.457	0.475	0.487	0.493	0.737	0.889	1.072	1.412	1.543	1.754	1.883	2.058	3 623
CASHAMAS CO.	Max	0.444	0.469	0.482	0.482	0.722	0.855	1.055	1.302	1.437	1.684	1.832	1.894	3.268
ے و ر	Min	0.402	0 412	0 423	0.433	0.646	0.794	0 934	1.323	1.429	1.570	1.661	1.931	3.484
€ g €	Ave	0.391	0.407	0.418	0 423	0.632	0.762	0.919	1.211	1.323	1.504	1.614	1 764	3.106
Manager Com	Max	0.381	0.402	0.413	0.413	0.618	0.733	0.904	1.116	1.232	1.443	1.570	1.623	2 801
218	Min	0.352	0.360	0.370	0.379	0 566	0 694	0.817	1.157	1.250	1.374	1.453	1.689	3.049
€ å £	Ave	0.342	0.356	0.365	0.370	0.553	0.667	0.804	1.059	1.157	1.316	1.412	1.543	2.717
A STATE OF THE PARTY OF THE	Max	0.333	0.352	0.361	0.361	0.541	0.641	0.791	0.977	1 078	1.263	1.374	1,420	2 451

Figure 4

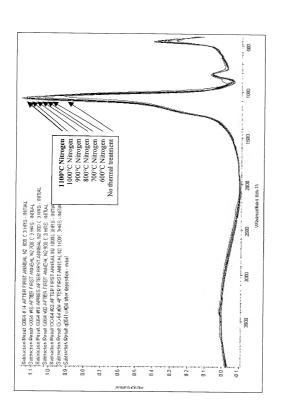


Figure 5a

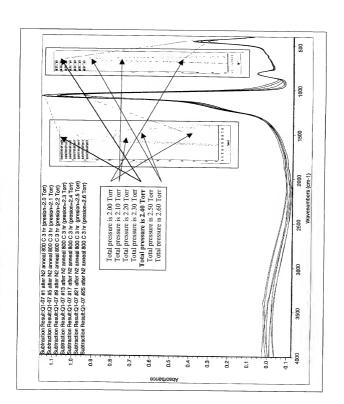


Figure 5b

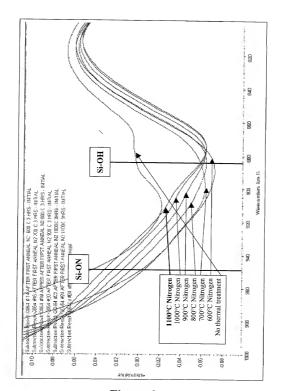


Figure 6a

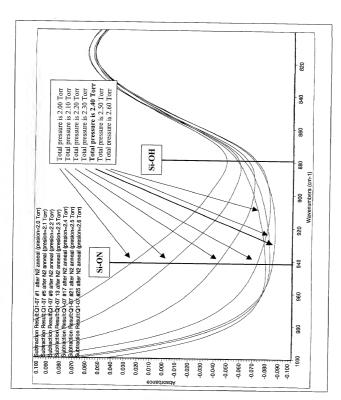


Figure 6b

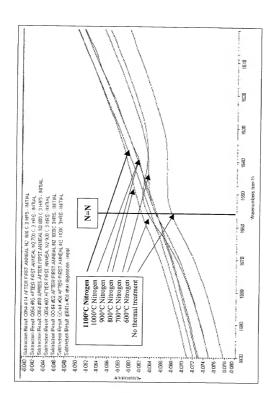


Figure 7a

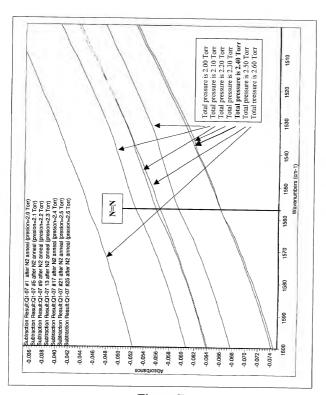


Figure 7b

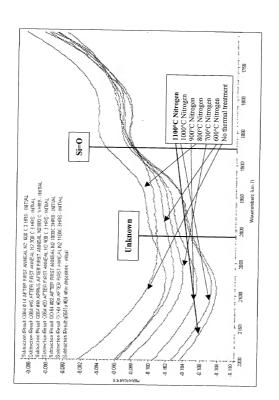


Figure 8a

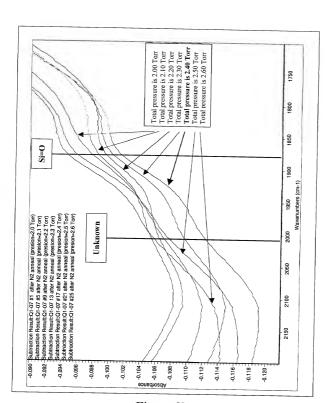


Figure 8b

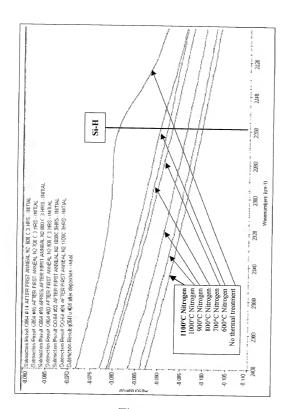


Figure 9a

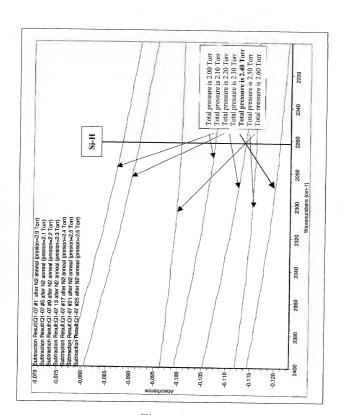


Figure 9b

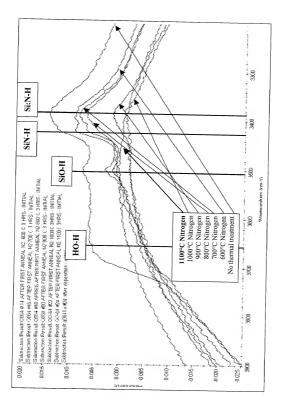


Figure 10a

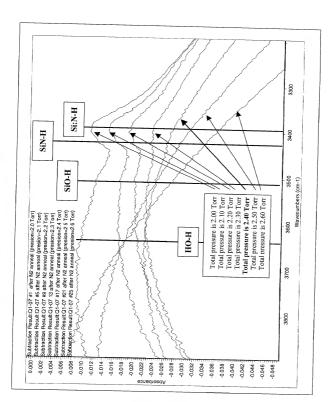


Figure 10b

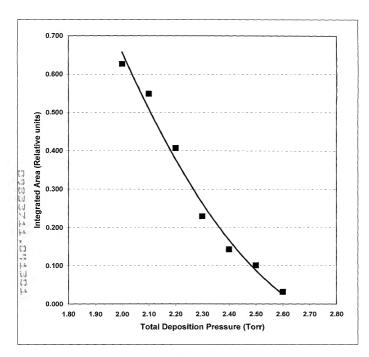


Figure 11

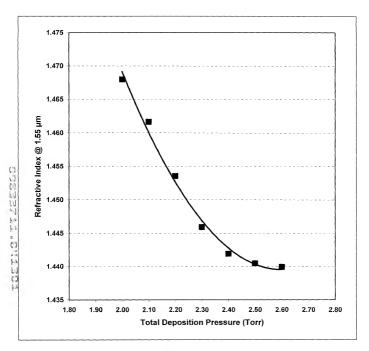


Figure 12

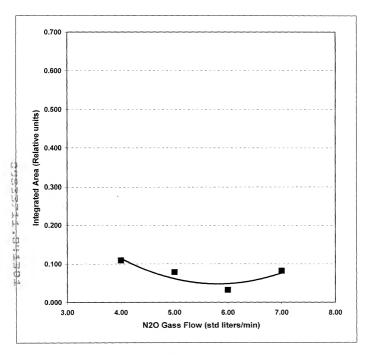


Figure 13

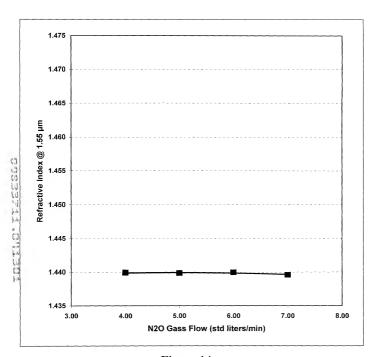


Figure 14